



Brother Mobile Full Color Inkjet Printer

MP-21C/CDX

User's Guide

**Please read this manual thoroughly before using the printer.
Keep this manual in a convenient place for quick and easy reference at all times.**

Shipment of the Printer

If for any reason you must ship your Printer, carefully package the Printer to avoid any damage during transit. It is recommended that you save and use the original packaging. The Printer should also be adequately insured with the carrier.

Warning

When shipping the Printer, **DO NOT** remove the **INK CARTRIDGES** from the Printer. **Failure to fit the ink cartridges into the Printer during shipping will cause severe damage to the Printer and will VOID THE WARRANTY.**

- 1 DO NOT remove the ink cartridges. Push the  (**On/Off**) button to turn the printer off.

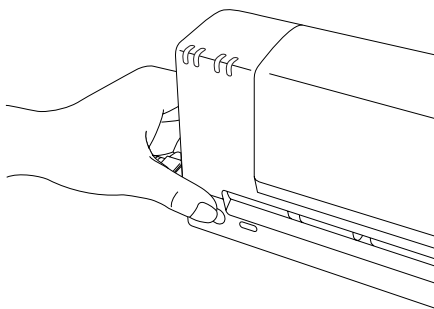


Fig. 0-1 Turning the Printer off

- 2 Turn your computer off and remove the Printer Interface Card from the computer. Remove the PC Card cable from the printer and from the Printer Interface Card. Remove the AC Adapter and Parallel Interface Cable if connected (MP-21CDX or PA-21MP user only).

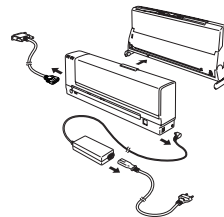


Fig. 0-2 Remove the Cable

- 3 Pack the printer in the original carton box and tape it securely closed.

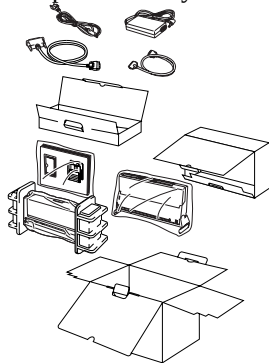


Fig. 0-3 Repacking

! Caution

- Make sure the printer has the ink cartridges fitted when shipping.
- DO NOT turn the printer upside down while shipping.
- If the print quality reduces after you have shipped the printer, clean the print head. (See '[Cleaning the Print Head](#)' in [Chapter 4](#))

(For USA & CANADA Only)

For technical and operational assistance, please call:

In USA	1-877-284-3238	(outside California)
	949-859-9700 Ext. 329	(within California)
In Canada	1-800-853-6660	
	514-685-6464	(within Montreal)

If you have comments or suggestions, please write us at:

In USA	Printer Customer Support Brother International Corporation 15 Musick Irvine, CA 92618
In Canada	Brother International Corporation, Ltd. 1, Rue Hôtel De Ville Dollard-des-Ormeaux P.Q. Canada H9B3H6

BBS

For downloading drivers from our Bulletin Board Service, call:

In USA	1-888-298-3616
In Canada	1-514-685-2040

Please log on to our BBS with your first name, last name and a four digit number for your password. Our BBS supports modem speeds up to 14,400, 8 bits no parity, 1 stop bit.

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DEALERS/SERVICE CENTERS (USA only)

For the name of an authorized dealer or service center, call 1-800-284-4357.

SERVICE CENTERS (Canada only)

For service center address in Canada, call 1-800-853-6660

INTERNET ADDRESS

For technical questions and downloading drivers: <http://www.brother.com>

brother[®]

UJ5351001
Printed in Japan



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If you have comments or suggestions, please write us at:

In USA	Printer Customer Support Brother International Corporation 15 Musick Irvine, CA 92718
In CANADA	Brother International Corporation (Canada), Ltd. - Marketing Dept. 1, rue Hôtel de Ville Dollard-des-Ormeaux, PQ, Canada H9B 3H6

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Definitions of Warnings, Cautions, and Notes

The following conventions are used in this User's Guide:



Warning

Indicates warnings that must be observed to prevent possible personal injury.



Caution

Indicates cautions that must be observed to use the printer properly or prevent damage to the printer.



Note

Indicates notes and useful tips to remember when using the printer.

To Use the Printer Safely



Warning

DO NOT put your hands into the printer while it is printing to avoid causing injury.

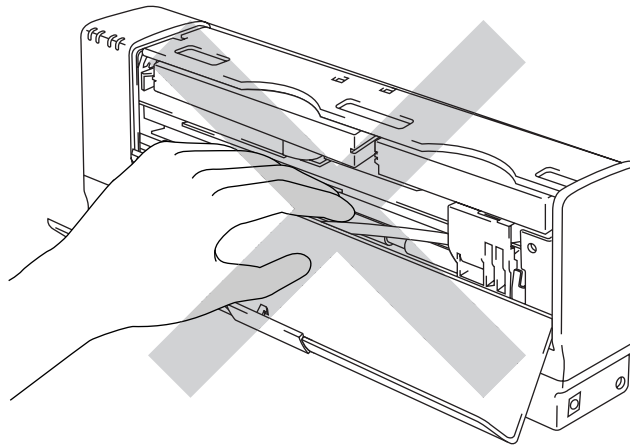


Fig. 0-1 Inside the Printer



Warning

Keep the ink cartridges away from children. If ink is swallowed, drink plenty of water. The ink contains no harmful substances, but if you are concerned you should consult a doctor.



Warning

Before cleaning the printer platen, be sure to turn off the ⏻(On/Off) button and make sure that all the LEDs are off. Remove the Printer Interface Card Cable and AC Adapter if connected (MP-21CDX or optional PA-21MP users only) from the printer.



Warning

DO NOT put your hands into the printer or move the carriage by hand. The printer may move the carriage by itself and cause injury.



Warning

DO NOT push the shutters in the ink cartridge slot with your fingers. There are sharp pins inside the Ink Cartridge Slot. If you touch them, it might cause injury.

Printer Do's and Don't for Optimum Print Quality



Caution

DO NOT touch the nozzles and the print head. DO NOT move the print head by hand or remove the print head from the printer.



Caution

During thunderstorms, push the ⏻(On/Off) button to turn off the printer and make sure that all the LEDs are off. Remove the Printer Interface Card Cable and AC Adapter if connected (MP-21CDX or optional PA-21MP users only).



Caution

DO NOT turn off or suspend your PC while the printer LEDs are on or blinking.

! Caution

DO NOT touch the flat cable and Ink Tube.

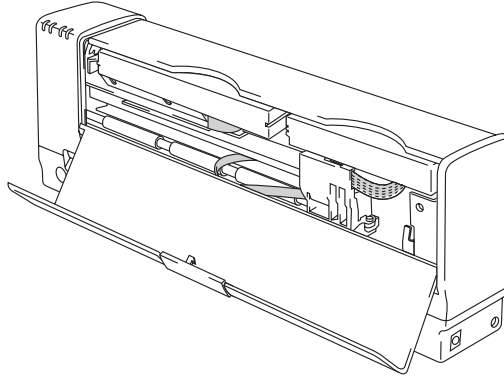


Fig. 0-2 The Flat Cable and Ink Tube

! Caution

Keep the printer on a flat surface.

! Caution

DO NOT move or shake the printer while it is printing.

! Caution

Do not disassemble the printer.

! Caution

DO NOT remove the Printer Interface Card, PC card cable or AC Adapter if connected (MP-21CDX or optional PA-21MP users only) while the printer LEDs are on or blinking.

! Caution

When you carry the printer in your car, put the printer in a protective bag or wrap the printer in a cloth.

! Caution

When you carry the printer , put the printer in a plastic bag .

 Caution

If the printer get wet, wait until it dries out completely before attempting to print.

 Caution

If you drop the printer, check that there are no broken parts. If you find some parts broken, consult your dealer or our authorized service representative.

 Note

We recommend you select the status monitor ON when you use the printer.

Printer Do's and Don't When Traveling

Caution

DO NOT leave the printer inside your car.

Caution

DO NOT shake or damage the printer.

Caution

When you carry the printer keep it upright.

Caution

When you travel by air, do not put the printer in your suitcase. Carry the printer onto the aircraft as hand baggage.

Caution

When you carry the printer, keep the ink cartridges installed.

Note

If you take the printer and AC adapter abroad, make sure that the power plug and the voltage requirements of the printer are correctly matched.

Note

It is recommended that you carry spare Brother Ink Cartridges when you travel with your printer.

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IMPORTANT INFORMATION: REGULATIONS

Federal Communications Commission (FCC) Declaration of Conformity (For U.S.A. only)

Responsible Party: Brother International Corporation
100 Somerset Corporate Boulevard
Bridgewater, NJ 08807-0911, USA
TEL : (908) 704-1700

declares, that the products

Product Name: Brother Mobile Inkjet Printer MP-21C/CDX,
Printer Interface Card CI-100
AC Adapter AD-100MP, AD-200MP (for MP-
21CDX or optional PA-21MP user)

complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important

A shielded interface cable should be used in order to ensure compliance with the limits for a Class B digital device.

Changes or modifications not expressly approved by Brother Industries, Ltd. could void the user's authority to operate the equipment.

Industry Canada Compliance Statement (For Canada only)

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Radio Interference (220-240 V model only)

This printer complies with EN55022(CISPR Publication 22)/Class B.

Before this product is used, ensure that you use a double-shielded interface cable with twisted-pair conductors and that is marked “IEEE1284 compliant”. The cable must not exceed 1.8 metres in length.

IMPORTANT - For Your Safety

When you use an AC Adapter with this printer, be sure to use only the Brother option part number AD-100MP(100V), or AD-200MP(200V) .

Geräuschemission / Acoustic Noise Emission (For Germany Only)

$L_{pa} < 70 \text{ dB(A)}$ DIN 45635-19-01-KL2

IMPORTANT - Wiring Information (For U.K. only)

If the power cord supplied with the AC Adapter (for MP-21CDX or option) is not suitable for your electrical outlet, remove the plug from the mains cord and fit an appropriate three pin plug. If the replacement plug is intended to take a fuse then fit the same fuse as the original.

If a moulded plug is severed from the power cord then it should be destroyed because a plug with cut wires is dangerous if plugged into a live socket outlet. Do not leave it where a child might find it.

In the event of replacing the plug fuse, fit a fuse approved by ASTA to BS1362 with the same rating as the original fuse.

Always replace the fuse cover. Never use a plug with the cover omitted.

WARNING - DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER 'E', BY THE EARTH SYMBOL $\perp$ OR COLOURED GREEN OR YELLOW.

The wires in the mains cord are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

The colours of the wiring in the power lead of this AC Adapter may not correspond with the markings which identify the terminals in your plug. If you need to fit a different plug, proceed as follows.

Remove a length of the cord outer sheath, taking care not to damage the coloured insulation of the wires inside.

Cut each of the wires to the appropriate length.

Remove a short section of the coloured insulation to expose the wires.

The wire which is coloured blue must be connected to the terminal which is marked with the letter "N" or coloured black or blue.

The wire which is coloured brown must be connected to the terminal which is marked with the letter "L" or coloured red or brown.

The outer sheath of the cord must be secured inside the plug. The coloured wires should not hang out of the plug.

DECLARATION OF CONFORMITY (EUROPE)

We, Brother International Europe Ltd.,
Brother House 1 Tame Street, Guide Bridge,
Audenshaw, Manchester M34 5JE, UK.

declare that this product is in conformity with the following normative documents:

EMC: EN 55022 Class B, EN 50082-1

following the provisions of the Electromagnetic Compatibility Directive 89/336/EEC (as amended by 91/263/EEC and 92/31/EEC) and that the AC Adapter, as supplied with this system, conforms with EN 60950. This system also follows the provisions of the Low Voltage Directive 73/23/EEC.

Issued by:

Brother International Europe Ltd.
European Technical Services Division



CHAPTER 1 INTRODUCTION

ABOUT THE GUIDEBOOKS

You have two guidebooks for this printer. Read each guidebook in the following order:

1. Read the Quick Setup Guide to set up your printer and connect it to your computer. It also contains information about setting up your computer for your printer by installing the printer driver.
2. Read the Users Guide to obtain information about the following.

CHAPTER 1 - Introduction

CHAPTER 2 - Paper Handling

CHAPTER 3 - Control Panel

CHAPTER 4 - Maintenance

CHAPTER 5 - Troubleshooting

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ABOUT YOUR PRINTER

Printer Overview

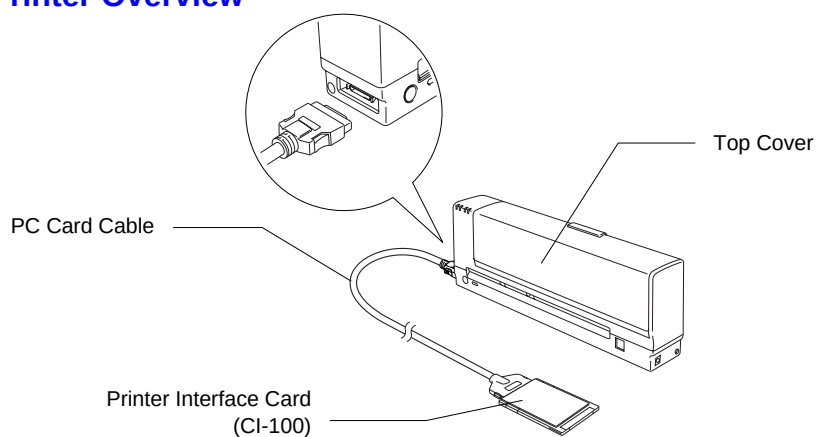


Fig. 1-1 Front View

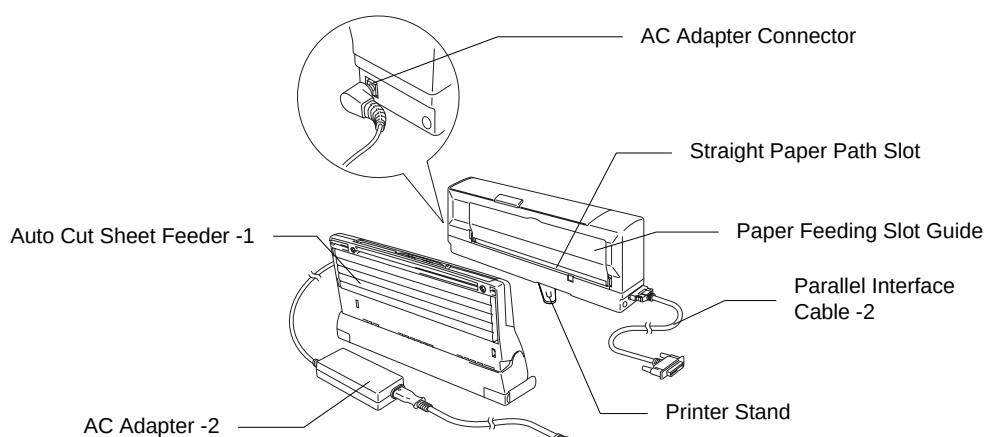


Fig. 1-2 Rear View

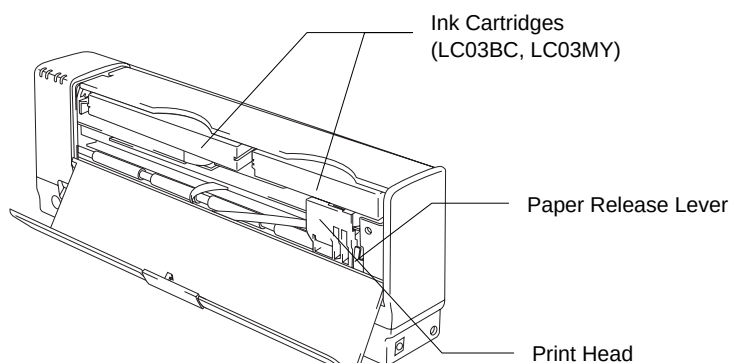


Fig. 1-3 Inside the Printer

1-(MP-21CDX or optional SF-21MP users only)

2-(MP-21CDX or optional PA-21MP users only)

Features

This printer has the following features:

- ❑ **Small and Light InkJet Printer**
This printer weighs about 1kg (2.2 lbs.) and the footprint is very small. You can take the printer with you anywhere, any time you want.
- ❑ **Lowest Power Consumption in the World**
Power consumption is so small (2.5-3.0 W: printing, 0.5 W: waiting) that it is possible to take power from a Notebook PC through the Printer Interface Card. Even if you use the AC adapter (MP-21CDX or optional PA-21MP users only), it's also easy to carry around.
- ❑ **Quietest InkJet Printer in the World**
The printer is so quiet (less than 40dBA), that the printer never disturbs you while you are working.
- ❑ **No need for an AC Adapter or Printer Cable**
The printer can take power from the Notebook PC through the Printer Interface Card. Therefore you do not have to carry an AC adapter and a printer cable with you all the time.
- ❑ **Brilliant 4 Color Output at 720 dpi**
You can get wonderful output at 720 by 720 dpi resolution. When you print on Brother special coated paper and glossy paper, you can get excellent high resolution output.
- ❑ **Two color print mode**
When you select this mode through the printer driver, you can print the color output in two colors. You can select Black/Cyan, Black/Magenta or Black/Yellow.
- ❑ **Low Running Cost**
You don't have to throw the print head of your printer away every time you have emptied an ink cartridge. When you run out of ink, you have to change only ink cartridges.
- ❑ **Straight Paper Path**
The printer can print on various types of paper - plain paper, coated paper, glossy paper, transparencies, envelopes and organizers - with fewer paper jams.
- ❑ **Auto Cut Sheet Feeder (MP-21CDX or SF-21MP users only)**
The Feeder is detachable. When using the Feeder, you can easily load up to 30 sheets of paper. When carried with the printer it fits on the bottom of the printer and the total size including the printer is about A4 size.
- ❑ **AC Adapter and Parallel Interface Connector (MP-21CDX or PA-21MP users only)**
When you want to print faster, use the AC Adapter.
When you cannot print using the PC Card slot, use the Parallel Interface Cable and AC adapter instead.

Operating and Storage Environment

Please take note of the following before using the printer.

Power Supply

Use the printer within the specified power range.

AC power: $\pm 10\%$ of the rated power voltage
Frequency: 50/60 Hz (100-120V or 220-240 V)

The power cord, including extensions, should not exceed 5 meters (16.5 feet).

Do not share the same power circuit with other high-power appliances, particularly an air conditioner, copier, shredder, etc. If it is unavoidable that you must use the printer with these appliances, we recommend you use a voltage transformer or a high-frequency noise filter.

Use a voltage regulator if the power source is not stable.

Environment

Use the printer only within the following ranges of temperature and humidity.

Ambient temperature: 10°C to 35°C (50°F to 95°F)
Ambient humidity: 20% to 80% (without condensation)

Use the printer in a ventilated room.

Place the printer on a flat, horizontal surface.

Keep the printer clean. Do not place the printer in a dusty place.

Do not place the printer where it is exposed to direct sunlight. Use a blind or a heavy curtain to protect the printer from direct sunlight when the printer is unavoidably set up near a window.

Do not place the printer near devices that contain magnets or generate magnetic fields.

Do not subject the printer to strong physical shocks or vibrations.

Do not expose the printer to open flames or salty or corrosive gasses.

Do not place objects on top of the printer.

Do not place the printer near an air conditioner.

Keep the printer horizontal when carrying it.

If you have kept the printer in temperatures over 35°C or under 10°C for some time, place the printer in an environment where the temperature is between 10°C and 35°C for 30 minutes before using the printer.

CHAPTER 2

PAPER HANDLING

PAPER SPECIFICATIONS

The output quality of Inkjet printers depends on the paper type being used. Before you print, be sure to check the information below.

Note

It is recommended that you test paper, especially special sizes and types of paper, on this printer before purchasing large quantities.

The printer can handle paper that has the following specifications. With this printer, you can print on plain paper, coated paper, transparencies, glossy paper and envelopes.

Paper Type	Paper Size	Feeder Capacity (MP-21CDX or SF-21MP users only)
Cut sheet	A4, Letter, Executive, Legal (*1), B5	30 sheets of 75 g/m ²
Coated Paper for 360 dpi printing Coated Paper for 720 dpi printing	A4, Letter, Executive, Legal (*1), B5	20
Transparencies	A4, Letter (*3)	×
Glossy paper	A4, Letter	×
Envelopes	DL, COM-10, Monarch, B5, C5 (*2)	×
Organizer	K, L	×

Paper Weight Range

From Paper Support:	60 to 105 g/m ² (16 to 28 lb.)
From Straight Paper Path:	60 to 157 g/m ² (16 to 42 lb.)
Auto Cut Sheet Feeder:	60 to 105 g/m ² (16 to 28 lb.)

Paper Size

User Defined:	100-216 x 100-356 mm (3.94-8.5 x 3.94-14 inches)
---------------	---

*1 - Legal size paper can only be used in the Paper Feeding Slot and the Straight Paper Path Slot, it cannot be used in the Auto Cut Sheet Feeder.

*2 - Envelopes can only be used in the Straight Paper Path Slot.

*3 - After finishing printing a page, remove each sheet of paper.

 Note

To get the best output quality and to avoid any damage, use Brother special coated paper and glossy paper.

Quality Coated Paper for 360 dpi Color InkJet printing

BP36CL (Letter), BP36CA (A4)

High Quality Coated Paper for 720 dpi Color InkJet printing

BP72CL (Letter), BP72CA (A4)

Color InkJet Glossy Paper (Super Fine mode)

BPGLL (Letter), BPGLA (A4)

Recommended paper

Cut sheet:	Xerox 4200 (in USA) Xerox Premier 80g/m ² (in Europe) or equivalent
Transparencies:	3M CG3460, 3M CG3410-BPTRL (in USA) 3M CG3460, 3M CG3410 (in Europe)

 Caution

When you print on transparencies, it is possible to stain your hands or clothes if you touch the surface of the transparency immediately after it is printed out.

We recommend you load transparencies from the paper feeding slot.

Remarks

Use a recommended type of paper, especially plain paper, for optimum printing. For more information on paper specifications, consult your nearest authorized sales representative or the place you purchased the printer.

You cannot use transparencies designed for laser-based copier use.

You can use recycled paper in this printer.

 Caution

Before using any paper, make sure that it is not curled. If it is, you should straighten the paper as much as possible by rolling it in the opposite direction of the curl. Feeding curled or damaged paper may cause paper jams and mis-feeds.

Printable area

The Printable area depends on the settings in your application. The figure below shows the physically printable area and non guaranteed print area of various paper types with this printer.

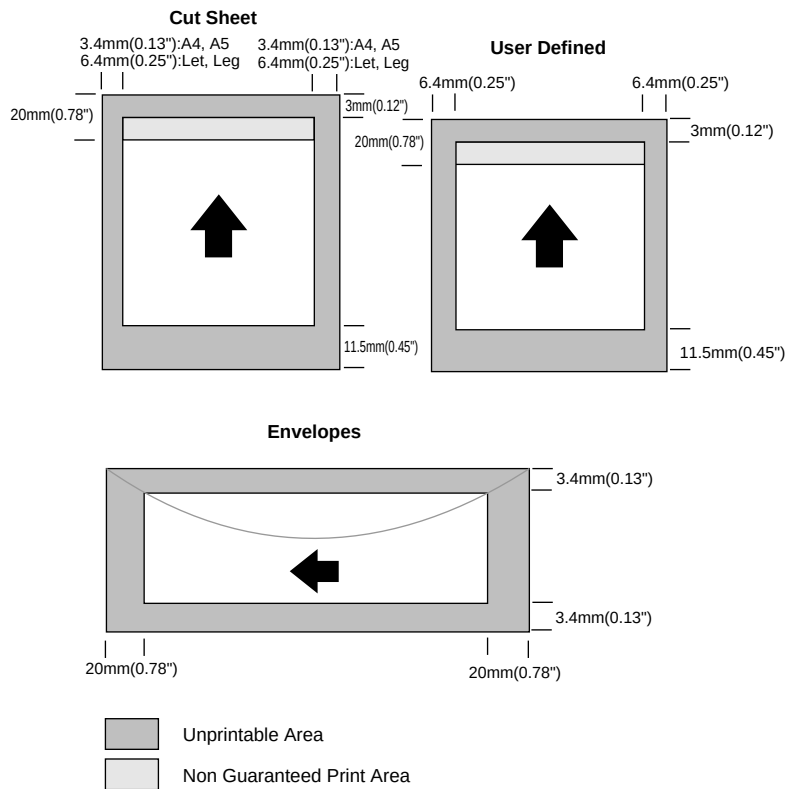


Fig. 2-1 Printable Area

The following types of paper and envelopes are not recommended for use.

- Damaged, curled, wrinkled, or irregularly shaped paper and envelopes
- Extremely shiny or highly textured paper and envelopes
- Envelopes with clasps
- Envelopes of baggy construction
- Envelopes not sharply creased
- Embossed envelopes
- Paper and envelopes already printed with a laser printer
- Envelopes pre-printed on the inside
- Paper and envelopes that cannot be arranged uniformly when placed in a pile

ABOUT BROTHER SPECIAL PAPER

Caution

When you print on coated paper, transparencies and glossy paper, be sure to select the correct media in the 'Quality/Color' tab in the printer driver.

About Brother Special Coated Paper

We recommend you use Brother special coated paper, depending on the resolution you are using, for you to get the brilliant color output you expect.

For Fine quality:

Quality Coated Paper for 360 dpi Color InkJet printing

NO.	BP36CL	(letter)
	BP36CA	(A4)

For Super Fine quality:

High Quality Coated Paper for 720 dpi Color InkJet printing

NO.	BP72CL	(letter)
	BP72CA	(A4)

These papers are manufactured specifically for this printer to provide optimum print quality. When using these papers please follow the notes below:

- There is a surfaced side and non-surfaced side to the paper, and it is specially coated only on the surfaced side. Therefore, when loading paper in the printer, make sure that the whiter side (the coated surface) is facing up.
- DO NOT touch the coated side of the paper, as it will absorb water and perspiration easily and might cause decreased output quality.
- Be sure to use the most suitable coated paper, according to the resolution you are using. If you do not use the most suitable paper you may not get good print output quality.
- When storing paper, keep it in the original bag and seal the bag. Make sure you keep the paper flat. Keep paper away from moisture and out of the direct rays of the sun.
- Printing resolution (Set from the printer driver):
 - Select Normal mode for 360 dpi printing
 - Select Super Fine mode for 720 dpi printing

About Brother Special Glossy Paper

When you print on glossy paper, you can get a very clear and crisp output.

We recommend you use Brother special glossy paper for you to get the best output, as the paper is especially designed to be used for Brother Inkjet printing.

For 720 dpi:

Color InkJet Glossy Paper

NO	BPGLL	(letter)
	BPGLA	(A4)

- DO NOT touch the surface of the glossy paper, as water or perspiration will stain the surface. DO NOT touch the printing side of the paper.
- You should use the glossy paper in normal office environmental conditions:
Temperature: 15~25°C (59~77°F) Humidity: 40 ~60%
- After finishing printing a page, remove each sheet of paper immediately and place it face up on a flat surface until it is completely dry. DO NOT place anything on the printed side of the paper.
- When storing a stack of printed glossy paper, place a sheet of paper between each sheet of printed glossy paper.
- Printing resolution (Set from the printer driver): Super Fine mode

LOADING PAPER

How to Load Paper in the Paper Feeding Slot

1. Open the Paper Feeding Slot Guide.

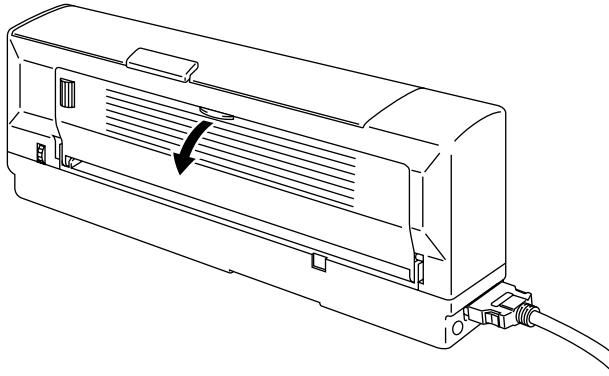


Fig. 2-2 Open the Paper Feeding Slot Guide

2. Make sure that the **(On/Off)** LED is on. Take a sheet of paper and insert it into the Paper Feeding Slot. Be sure to insert the paper to the right hand side of the Paper Feeding Slot Guide looking at the printer from the front.

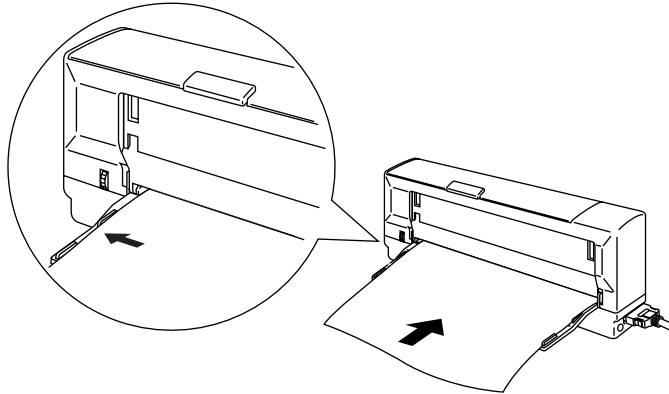


Fig. 2-3 Loading Paper

Note

- About 2 seconds after you insert the paper, the printer feeds the paper and then reverse feeds the paper a little, the printer is now ready to print.
- Hold the paper until the printer picks up the paper correctly.
- If the paper does not load straight, open the top cover and pull the release lever. Pull the paper out, close the top cover and try again .
- When you print on transparencies, remove each sheet immediately after it is printed out.

How to Load Paper in the Straight Paper Path Slot

1. Make sure that the  (On/Off) LED is on. Take a sheet of paper and insert it into the Straight Paper Path Slot. Be sure to insert the paper to the right hand side of the Paper Feeding Slot Guide looking at the printer from the front. Be sure to adjust the paper to the mark below.

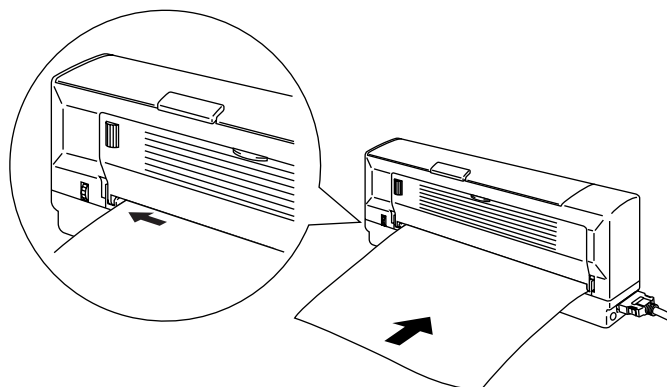


Fig. 2-4 Loading Paper in the Straight Paper Path Slot

Caution

- Make sure you insert paper into the Paper Feeding Slot straight so that the paper does not skew.
- Be sure to adjust the paper setting in the printer driver.
- Load thick paper and envelopes from the straight paper path slot.
- When the printer is in Auto-Power off mode, the paper will be ejected automatically. Turn the printer on and load the paper again.

How to Load Envelopes in the Straight Paper Path Slot

1. Take an envelope and insert it into the Straight Paper Path slot. Be sure to adjust the paper to the mark below.

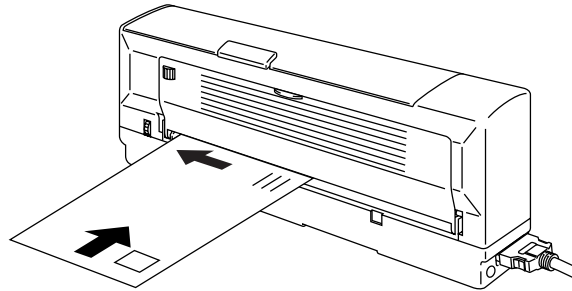


Fig. 2-5 Loading Envelopes

Note

- When you load envelopes, insert the envelope carefully so that it won't skew.
- Do not print on the rear of envelopes. If you do, it might damage the printer.
- When loading envelopes, load them with the print side face up.
- When you print on envelopes, be sure to load them with the short edge downwards with the flap to the left hand side when you view the printer from the front.
- When an envelope is curled, straighten it before printing.

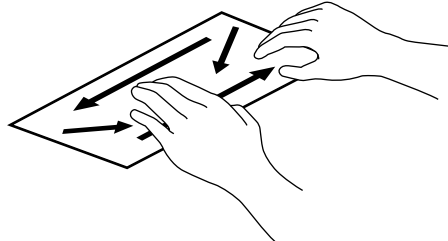


Fig. 2-6 Straighten the Envelopes

- Fold the flap securely with a pen or with your finger before loading envelopes.

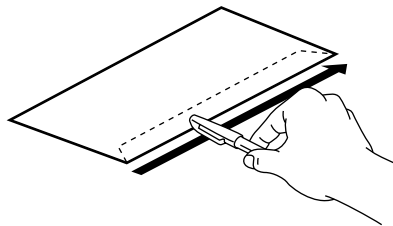


Fig. 2-7 Fold the flap

- Make sure that the amount of curl of the envelope is less than 5 mm when you load envelopes. Curl at the edge of envelopes must be less than 1 mm. If you print on these envelopes, it might damage the printer.

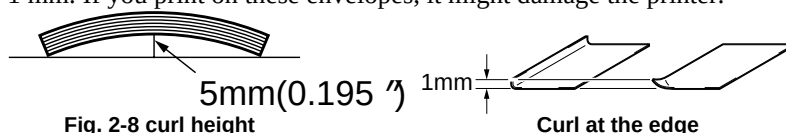


Fig. 2-8 curl height

Curl at the edge